

I. AMENDMENT OF THE CLAIMS

1. (Currently Amended) A method for therapeutic management of infertility and increasing the quality of fertilized oocytes and embryos by programming controlled ovarian stimulation (COS) and assisted reproductive techniques (ART) in order to optimize oocyte harvesting and fertilization, the method comprising the following steps:

a) ~~programming the start of controlled ovarian stimulation~~ a treatment cycle comprising COS by resetting the menstrual cycle through administration of inducing the start of menses by administering a compound selected from the group consisting of a LHRH ~~antagonists~~ antagonist, a progestogen only preparation, a combined oral contraceptive preparation, and a combination thereof,

wherein the LHRH antagonist is selected from the group consisting of cetrorelix, teverelix, ganirelix, antide, and ~~abavelix~~ abarelix and is administered at a dosage range between 0.5 mg to 10 mg during the luteal phase of the menstrual cycle preceding the treatment cycle ~~to induce luteolysis~~, and

wherein the progestogen only preparations and/or the combined oral contraception preparations are administered starting during ~~both the luteal phase and~~ of the menstrual cycle prior to the preceding menstrual cycle, or on day 1 or 2 of the preceding menstrual cycle;

b) ~~exogenous stimulation of the~~ stimulating ovarian follicle growth ~~via administration of~~ by administering a compound selected from the group consisting of urinary FSH, recombinant FSH, HMG, recombinant LH, clomiphene, and a combination thereof;

c) ~~suppression of~~ suppressing premature ovulation ~~via administration of~~ by administering a LHRH [-] antagonist selected from the group consisting of cetrorelix, teverelix, ganirelix, antide, and ~~abavelix~~ abarelix during the follicular stage of the treatment ~~menstrual~~ cycle;

d) ~~induce~~ inducing ovulation ~~via administration of~~ by administering HCG; and

e) ~~application of~~ applying assisted reproduction techniques, ~~especially IVF, ICSI, GIFT, ZIFT or by intrauterine insemination via sperm injection.~~

2-3. (Canceled)

4. (Currently Amended) The method of claim 1, wherein the ~~intake~~ administration of the progestogen only [-] preparations or combined oral contraceptive preparations or LHRH antagonist or combinations thereof is completed on Mondays to Thursdays to obtain start of menstrual bleeding and of ovarian stimulation therapy on Fridays to Mondays and scheduling and undertaking of oocyte pick up and further ART procedures ~~can be scheduled and undertaken~~ on Mondays to Thursdays.

5. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which the LHRH [-] antagonist that is administered in step (c) is cetrorelix.

6. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which the LHRH [-] antagonist that is administered in step (c) is teverelix.

7. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which the LHRH [-] antagonist that is administered in step (c) is ganirelix.

8. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which the LHRH [-] antagonist that is administered in step (c) is antide.

9. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which the LHRH [-] antagonist that is administered in step (c) is abarelix.

10. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which ~~the programming is performed by~~ step (a) comprises oral administration of a progestogen preparations preparation.

11. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which ~~the programming is performed by~~ step (a) comprises oral administration of a progestogen-only containing contraceptives contraceptive.

12. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which ~~the programming is achieved by~~ step (a) comprises oral administration of a combined monophasic contraceptive preparations preparation containing ethinylestradiol and progestogen.

13. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which ~~the programming is undertaken by~~ step (a) comprises oral administration of a biphasic contraceptive preparations preparation containing ethinylestradiol and progestogen.

14. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which ~~the programming is performed by~~ step (a) comprises oral administration of triphasic contraceptive preparations containing ethinylestradiol and progestogen.

15. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which ~~the programming is performed by~~ step (a) comprises oral administration of contraceptive preparations containing mestranol and progestogen.

16. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which ~~the programming is performed by~~ step (a) comprises administering the LHRH antagonist cetrorelix with a dosage of 0.5 to 10 mg ~~administered~~ during luteal phase.

17. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which ~~the programming is performed by~~ step (a) comprises administering the LHRH antagonist teverelix with a dosage of 0.5 to 10 mg ~~administered during~~ luteal phase.

18. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which ~~the programming is performed by~~ step (a) comprises administering the LHRH antagonist ganirelix with a dosage of 0.5 to 10 mg ~~administered during~~ luteal phase.

19. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which ~~the programming is performed by~~ step (a) comprises administering the LHRH antagonist antide with a dosage of 0.5 to 10 mg ~~administered during~~ luteal phase.

20. (Currently Amended) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which ~~the programming is performed by~~ step (a) comprises administering the LHRH antagonist abarelix with a dosage of 0.5 to 10 mg ~~administered during luteal phase.~~

21. (Previously Presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1 in which the stimulation is performed by administration of urinary FSH or recombinant FSH or HMG, or recombinant LH, or a combination thereof.

22. (Previously Presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1 in which the ovarian stimulation is achieved with clomiphene.

23. (Previously Presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1 in which the ovarian stimulation is achieved with the combination of antioestrogens with gonadotropins.

24. (Previously Presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1 in which the ovarian stimulation is achieved with the combination of clomiphene with gonadotropins

25. (New) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, wherein step (e) comprises applying IVF, ICSI, GIFT, ZIFT or intrauterine insemination via sperm injection.